

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/29294

A. CLASSIFICATION OF SUBJECT MATTER												
IPC(7) : C12M 15/63; C12P 19/34; C12Q 1/68; C07H 21/00, 21/04, 21/02 US CL : 435/6, 91.1, 91.31, 455; 536/23.1, 24.31, 24.5 According to International Patent Classification (IPC) or to both national classification and IPC												
B. FIELDS SEARCHED												
Minimum documentation searched (classification system followed by classification symbols) U.S. : 435/6, 91.1, 91.31, 455; 536/23.1, 24.31, 24.5												
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched												
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) West, Dialog												
C. DOCUMENTS CONSIDERED TO BE RELEVANT												
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
X	THOMPSON, J.D. Applications of antisense and siRNAs during preclinical drug development. Drug Discovery Today. September 2002, Vol. 7, No. 17, pages 912-917, right col. page 913, Fig. 1, page 914, Figs. 2 and 3, page 915, text, pages 914-915.	1-4, 8-11, 16-18, 25-28, 35, 47, 48, 50, 52, 53, 56, 57, 61-65, 67, 79										
X,P --- Y,P	HAMADA, M. et al. Effects on RNA Interference in Gene Expression (RNAi) in Cultured Mammalian Cells of Mismatches and the Introduction of Chemical Modifications at the 3'-Ends of siRNAs. Antisense and Nucleic Acid Drug Development. 01 October 2002, Vol. 12, pages 301-309, abstract, first paragraph on page 303, last two full paragraphs on page 303, Figure 3 and text on page 305, text on page 307.	1-3, 8, 9, 16-18, 22, 23, 25-28, ----- 82										
Y	PATZEL, V. et al. A theoretical approach to select effective antisense oligodeoxyribonucleotides at high statistical probability. Nucleic Acids Research. 1999, Vol. 27, No. 22, pages 4328-4334, abstract, paragraph 2 of the introduction, page 4239, first paragraph of results, Figures 1, 2 and 3, section entitled "structure-function relationship" of the results section, table 1 and the discussion in its entirety.	5, 6, 7, 9-11, 56, 61-65										
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.												
* Special categories of cited documents: <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention											
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone											
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art											
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search 13 November 2004 (13.11.2004)		Date of mailing of the international search report 13 NOV 2004										
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer Jane Zera Telephone No. (571) 272-1600										

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

PCT/US03/29294

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,133,246 A (MCKAY et al.) 17 October 2000, col. 4, line 50 - col. 11, line 65, tables 1-16, col. 36-58.	53, 54, 56, 57, 61-65, 78, 79 ----- 55, 69-77, 80, 81